

**Product Name:** OXA (17-33)

**Catalog No.:** 5115

**Batch No.:** 4

CAS Number: 343268-91-7

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>79</sub>H<sub>125</sub>N<sub>23</sub>O<sub>22</sub>  
**Batch Molecular Weight:** 1749  
**Physical Appearance:** White lyophilised solid  
**Counter Ion:** TFA  
**Solubility:** Soluble to 1 mg/ml in water  
**Storage:** Store at -20°C  
**Peptide Sequence:** Tyr-Glu-Leu-Leu-His-Gly-Ala-Gly-Asn-His-Ala-Ala-Gly-Ile-Leu-Thr-Leu-NH<sub>2</sub>

**2. ANALYTICAL DATA**

**HPLC:** Shows 98.6% purity  
**Mass Spectrum:** Consistent with structure

**3. AMINO ACID ANALYSIS DATA**

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala		3.00	2.94	Lys			
Arg				Met			
Asx		1.00	1.00	Phe			
Cys				Pro			
Glx		1.00	1.00	Ser			
Gly		3.00	3.06	Thr	1.00		0.96
His		2.00	2.00	Trp			
Ile		1.00	0.97	Tyr	1.00		1.02
Leu		4.00	4.04	Val			

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

OXA (17-33) is a potent and selective peptide orexin OX<sub>1</sub> receptor agonist (EC<sub>50</sub> values are 8.29 and 187 nM for OX<sub>1</sub> and OX<sub>2</sub> receptors respectively). Truncated form of orexin A (Cat. No. 1455).

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Batch Molecular Weight: 1749

Physical Appearance: White lyophilised solid

**Peptide Sequence:**

Tyr-Glu-Leu-Leu-His-Gly-Ala-Gly-Asn-His-  
Ala-Ala-Gly-Ile-Leu-Thr-Leu-NH<sub>2</sub>

**Storage:** Store at -20°C**Solubility & Usage Info:**

Soluble to 1 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**Counter Ion:** TFA**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

**References:**

**German et al** (2013) Truncated orexin peptides: structure-activity relationship studies. *Med.Chem.Lett.* **4** 1224. PMID: 24707347.

**Darker et al** (2001) Structure-activity analysis of truncated orexin-A analogues at the orexin-1 receptor. *Bioorg.Med.Chem.Lett.* **11** 737. PMID: 11266181.

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